Standards and Network Development (SND) Workgroup Update

National EPHT Conference

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Activities to Date

- **Technical Glossary (v 1.0)**
- **Principles (V 1.0)**
- **Conceptual Architecture Diagram**
- **Components and Data Flow Sequences Diagram**
- **Trading Partner Agreement Template**
- Data Access Barriers Survey
- Geo Primer
- Vision Document

Glossary Table of Contents

Examples of EPHTN Principles

- **Network Function**
  - The NEPHTN provides the ability to discover and access environmental data and health data and linked environmental-health data
- **Network Architecture**
  - Users enable and/or use "gateways" to access and securely provide data resources (e.g., data, tools, methods) via the Internet
- **Standards**
  - Metadata are required for all data sets available through the NEPHTN
- **Access**
  - Access to data will be granted by the data provider, with different rights of access possible
- **Network Management**
  - There is a "National Coordinating Body" that makes decisions about the NEPHTN

DRAFT High-level Overview of the National EPHT Network and Partner EPHT Networks

CDC EPHT Network

- Cancer Registry
- NCHS
- NCEH
- Birth Defects Registry

EPHTN Gateway

State EPHT Network

- County
- Dept. of Env.
- Hospitals
- Dept. of Health

EPHTN Gateway

National EPHT Network

EPHTN Gateway

- USGS
- EPA
- Academic Institutions
- NASA

Other Stakeholder EPHT Network Federal, University, etc

Consumer

Key

Network

Gateway

Data Sharing Entity

Security Layer
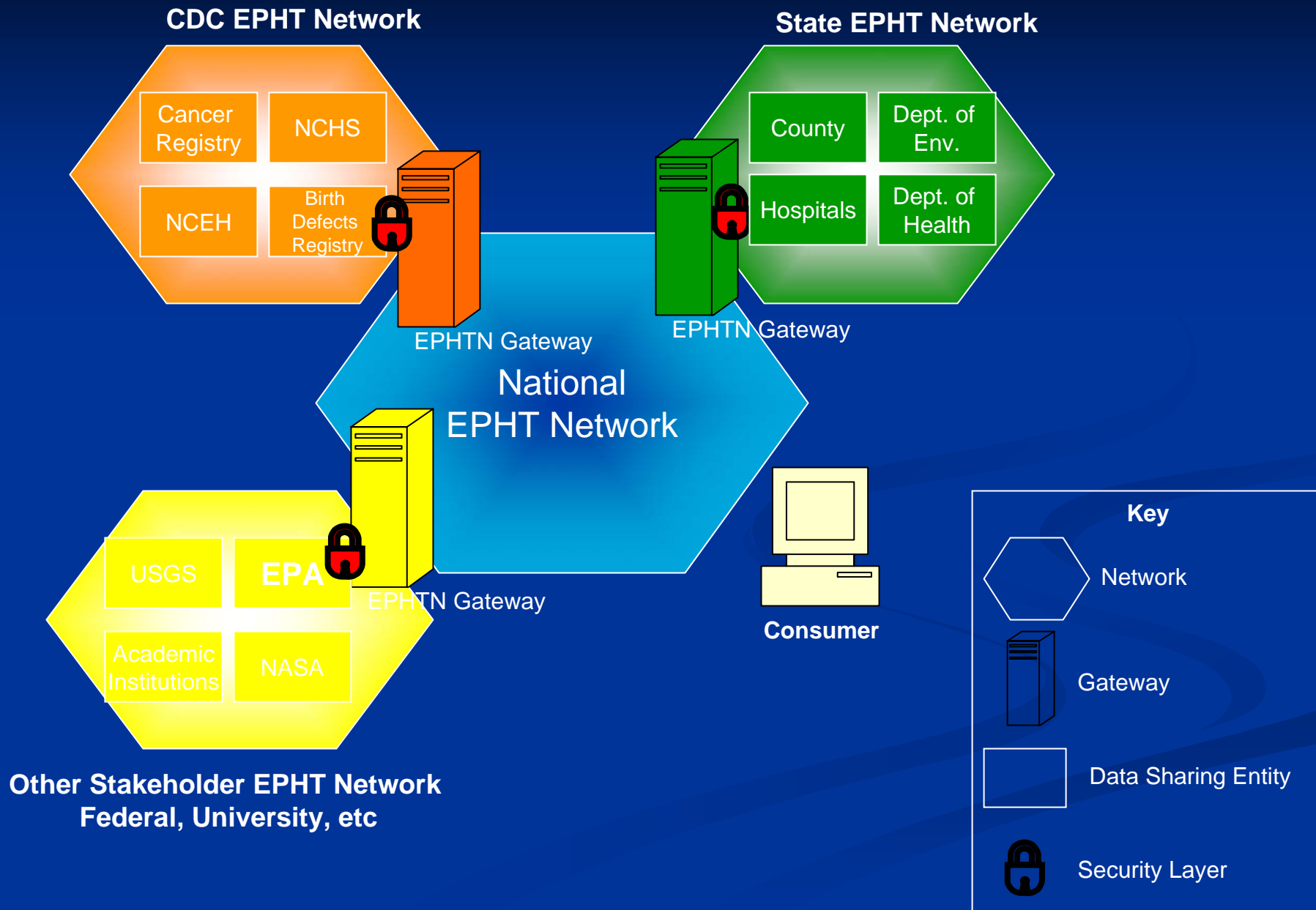
Components of an EPHTN Gateway

DRAFT Data Flow Sequence: Scenario 1

CDC EPHT Network

Data System

Transaction Interface

3

2

EPHTN Gateway

State EPHT Network

EPHTN Gateway

National EPHT Network

EPHTN Gateway

1

4

Consumer

Other Stakeholder EPHT Network
Federal, University, etc
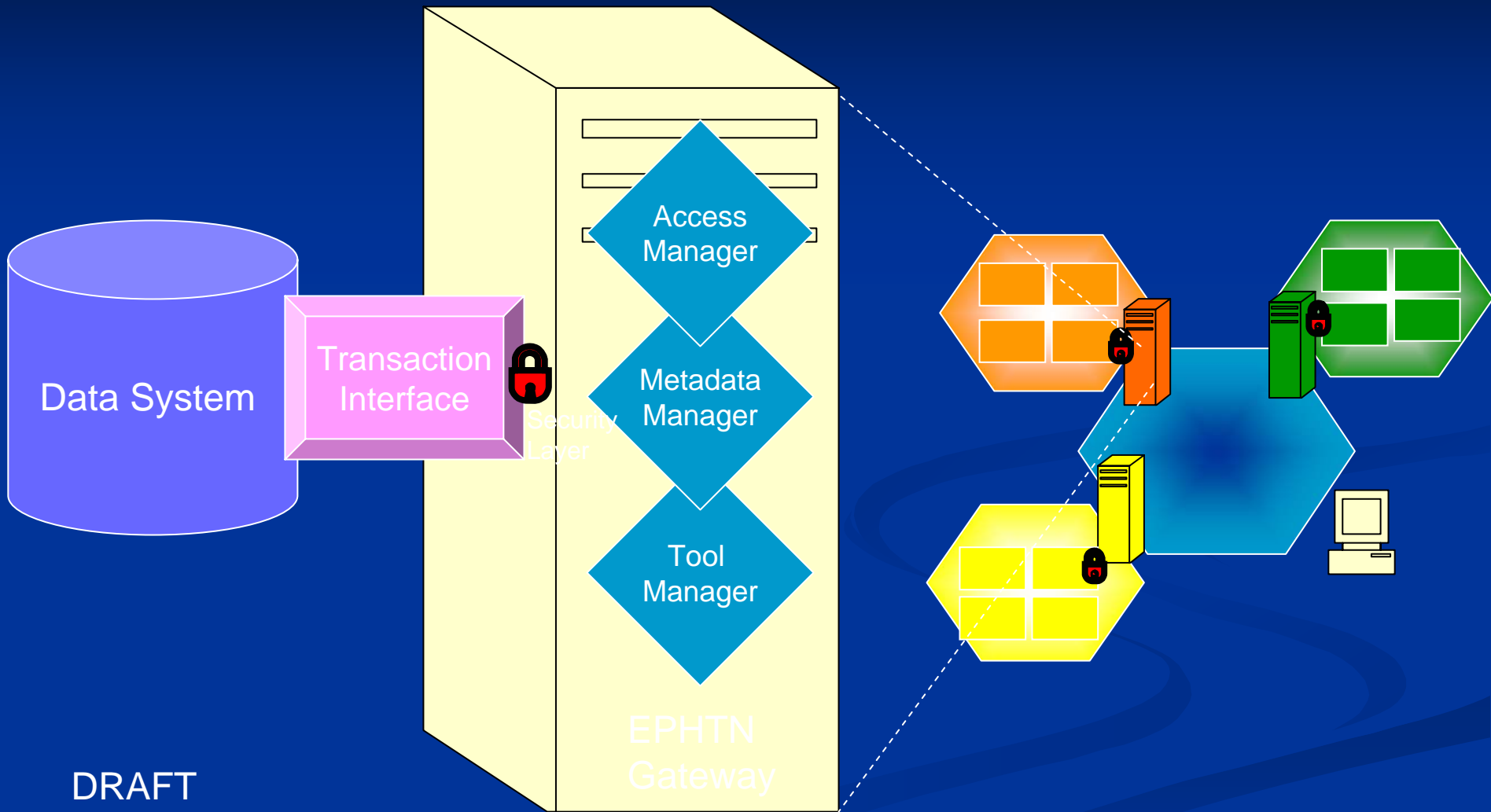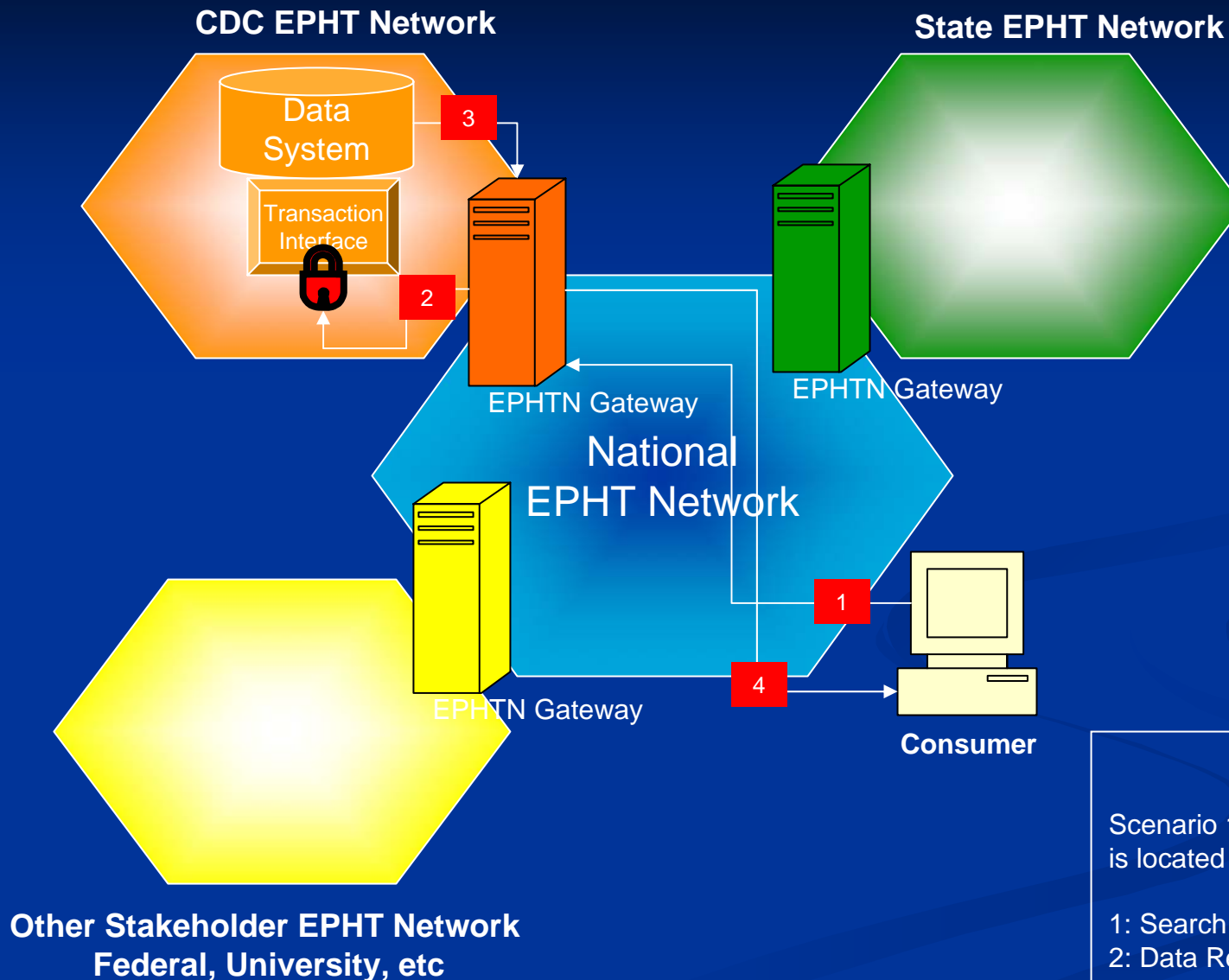
Sequence

Scenario 1: User-requested data is located on the CDC Network.

1: Search Request - Metadata
2: Data Request
3: Data Request Return
4: Data Return

DRAFT Data Flow Sequence: Scenario 2

CDC EPHT Network

Data System

Transaction Interface

EPHTN Gateway

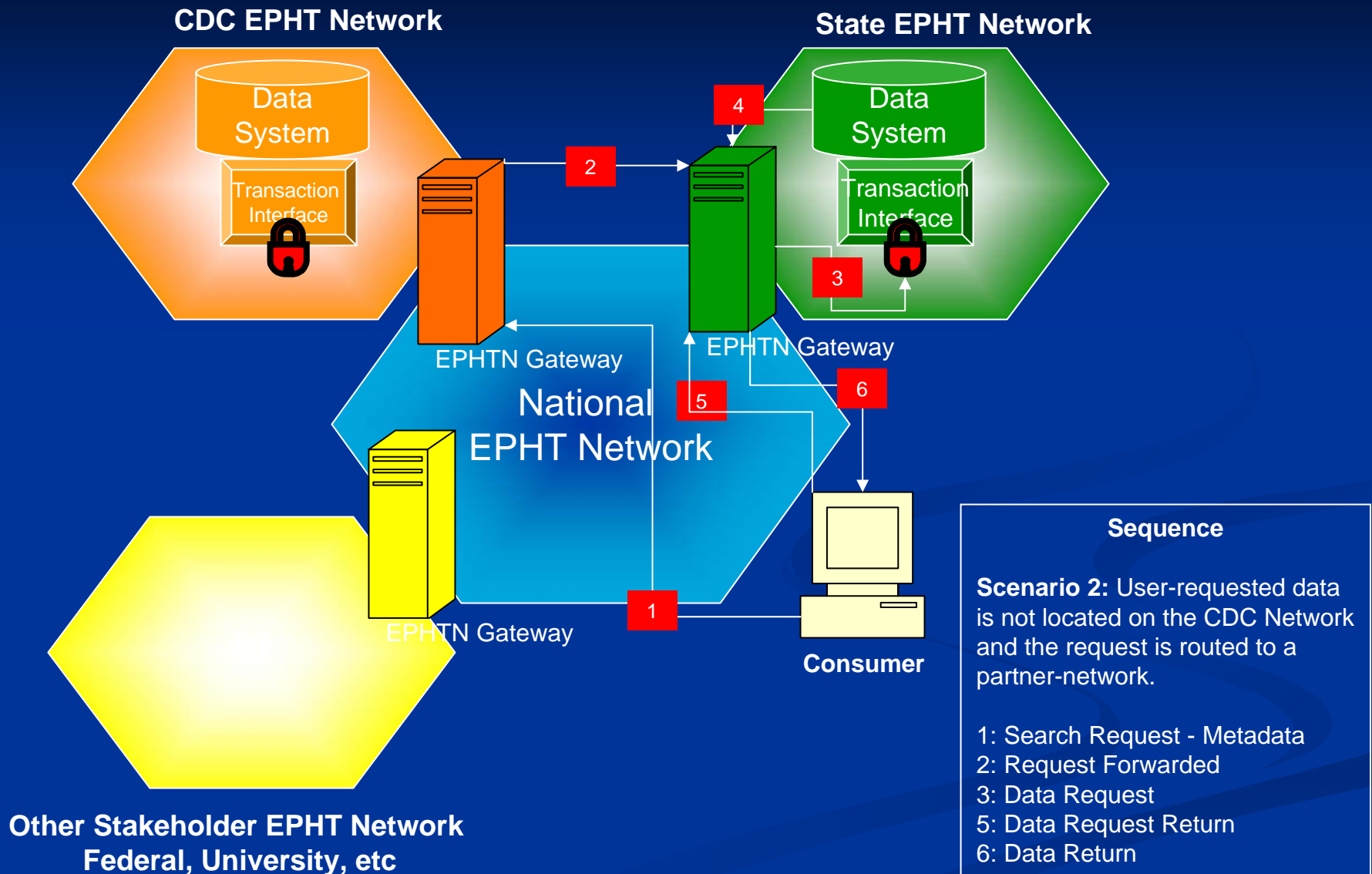**State EPHT Network**

Data System

Transaction Interface

EPHTN Gateway

National EPHT Network

EPHTN Gateway

Consumer

Other Stakeholder EPHT Network Federal, University, etc

Sequence

Scenario 2: User-requested data is not located on the CDC Network and the request is routed to a partner-network.

1: Search Request - Metadata
2: Request Forwarded
3: Data Request
5: Data Request Return
6: Data Return

"Trading Partner Agreement" Template

- Introduction
- Data Description
- Data Management
- Data Access/Security
- Contract Management/Administration
- Other
- Signatures

2005 Workplan Current Activities

- Develop a Metadata Template and Identify Tools for Creating Metadata

- Work with CDC/SAIC on EPHT "Prototype" in Joint Application Development (JAD) sessions

- Examine the possibilities of interchanging data between the EPA Exchange Network and PHIN

2005 Workplan Current Activities

- Explore a Conceptual Data Model to facilitate linking data
- Examine EPA Exchange Network – Implementation Lessons Learned
- Examine EPA Data Flows
- Examine EPHT Grantee Data Activities

2005 Workplan Future Activities

- Continue to define requirements for local, state, and national needs for EPHT (prototype and JAD activities)
- Continue Metadata Development Activities
  - Explore requirements for and implementation options for metadata registries
  - Finalize metadata template and collection tools and provide training
  - Explore options for a "Controlled Vocabulary" for EPHT
- Coordinate with PHIN Public Health Information Network (PHIN)
  - Develop better understanding of PHIN, NEDSS, NBS requirements and how EPHT interfaces (May 9th)
  - Participate in the PHIN Analysis, Visualization, and Reporting (AVR) Work Group
  - Explore, adopt, adapt PHIN security protocols

2005 Workplan Future Activities

- Continue to explore means to integrate with EPA Exchange Network
- Refine Network Architecture schematic diagrams
- Develop a "Data Model" for 1-2 specific examples of EPHT Data Linkages
- Explore the need for:
  - Data Quality Standards
  - Locational Referencing Standards
- Coordinate with the Program Marketing and Outreach Workgroup
- Develop an "Executive GeoPrimer" (short)

2005 Workplan Future Activities

- Develop EPHTN "Preliminary Implementation Guidelines"
    - Address technical and institutional approaches
    - Provide "template" for Grantee 120-Day "Master Plan"

Questions?